

WHERE WE ARE

Main DGGS Office

3354 College Road, Fairbanks, AK 99709
907.451.5010 | dggspubs@alaska.gov



Geologic Materials Center (GMC)

3651 Penland Pkwy, Anchorage, AK 99508
907.696.0079



Hours of Operation

Monday–Friday | 8:00AM–4:30PM

Our Mission

Determine the potential of Alaskan land for production of metals, minerals, fuels, and geothermal resources, the locations and supplies of groundwater and construction material, and the potential geologic hazards to buildings, roads, bridges, and other installations and structures.



Information Circular 12

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The Alaska Division of
**Geological &
Geophysical Surveys**



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Fairbanks, AK 99709
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WHAT WE DO

Our research helps Alaska

A branch of Alaska's Department of Natural Resources, the Division of Geological & Geophysical Surveys (DGGS) is the authority on Alaska's geologic resources and hazards. The geologists and support staff at DGGS are leaders in collecting, researching, interpreting, storing, and distributing information about Alaska's geology. Their research helps the state of Alaska in a variety of ways.

Public Safety

Findings and research help the state avoid or reduce the disastrous effects that could be caused by natural geologic hazards like volcanoes, earthquakes, avalanches, landslides, and tsunamis.

Economy

DGGS research helps the energy and mineral industries find Alaska's economic resources and encourages prudent resource development in the state.

Resources

Our geologists help land managers make informed decisions, enhancing existing and future resource development.

Geologic Reference Library and Publications

DGGS maintains a geologic reference library specializing in geologic information for Alaska. Publications can be viewed or purchased at the DGGS Fairbanks office, or online at dggs.alaska.gov.

Interactive Maps, Tools, and Datasets

DGGS has developed, and maintains, several interactive maps, tools, and databases, all of which can be accessed at maps.dggs.alaska.gov. They include:

- Tsunami Inundation Maps
- Geologic Photos of Alaska
- Geologic Materials Center Inventory
- Geologic Map Index of Alaska
- Elevation Datasets
- Quaternary Faults and Folds
- Alaska Shoreline Change Tool
- Historically Active Volcanoes

WHO WE ARE

Six sections work together to make geologic information available to the public

Geologic Information Center (GIC)

All of the reports, maps, and data produced by the geologists at DGGS are published by the GIC. **Databases**, online **interactive maps**, and **applications** are developed and maintained by the GIC to ensure fast and easy public access to Alaska's vast geologic data.

Geologic Materials Center (GMC)

Permanent **archives of geologic materials** and related data are stored at the GMC in Anchorage, Alaska. The **oil and gas well cores**, **mineral boreholes**, and **geologic samples** are valuable to the state, industry, and academia for researching future and current development. Rocks and materials are available in-house to study and sample.

Mineral Resources

Conducts statewide **bedrock geologic mapping**, **geochemical sampling**, **geophysical surveying**, and **mineral resource evaluations**. The maps, data, and reports generated by field, office, and laboratory work help promote prudent land management decisions, industry investment, and successful exploration of minerals in Alaska.

Engineering Geology

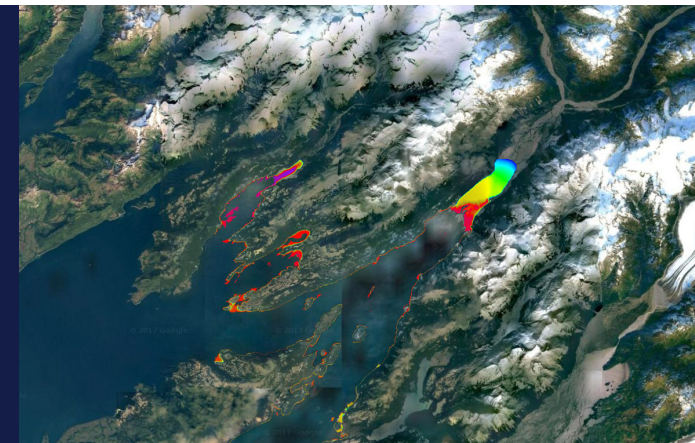
Determines the **potential geologic hazards** to buildings, roads, bridges, and other infrastructure statewide, as well as the locations and **supplies of groundwater** and **construction materials**. The maps and reports they create show the locations of hazards like active faults and the potential for landslides and tsunamis. Their work mitigates risks to public safety, lowers the costs of construction, and promotes informed land-use decisions.

Volcanology

Monitors and evaluates hazards from **54 historically active volcanoes** in the state, and provides timely and accurate **warnings of eruptions** and unrest. Their field expertise and online data and information distribution aids in efficiently responding to volcanic activity.

Energy Resources

Produces new geologic information about Alaska's **oil, natural gas, coal, and geothermal resources**. Geologic reports, maps, and data focus on promising areas in the state for energy resources, which leads to informed industry exploration and discoveries.



An example of the interactive tsunami inundation map database on the DGGS website.